PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Gilbert Carlo Marie LIZIN

Appln. No.:	Group Art Unit: Unknown
Confirmation No.: Unknown	Examiner: Unknown

Filed: June 18, 2001

For: TELECOMMUNICATION CARRIER PROCESSOR SUBSYSTEM WITH IN-BAND CONTROL AND ADDRESSING VIA CELL HEADER FIELDS

PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to examination, please amend the above-identified application as follows:

IN THE SPECIFICATION:

The specification is changed as follows:

Please insert the following section heading:

Page 1, after the title, insert the section heading:

Background of the Invention

Page 3, before the first paragraph:

Summary of the Invention

Page 6, before the first paragraph:

Brief Description of the Drawings

Page 6, before the fifth paragraph beginning with "The telecommunication carrier":

Detailed Description of the Invention

IN THE ABSTRACT:

Please delete the present Abstract of the Disclosure and replace it with the following new Abstract of the Disclosure.

ABSTRACT

A telecommunication carrier processor subsystem (CPS) adapted to receive cells (1, 2), preferably ATM cells, and to derive from the H-bit header field thereof a smaller set of R bits. The set of R bits is not only used to route the cell to a predetermined output of the subsystem but is also combined with a second set of D bits for replacing the VPI/VCI bits in the H-bit header field of the cell. The second set of D bits may be used for transmitting information data such as user data, control or command transmission. It may also be used for hand-over process or cell duplication and is then particularly suited for broadband local access applications relating to low earth orbit satellite constellations. Preserving the global ATM cell header size while using the freed D bits after changing the connection identifier range is called in-band control. It allows using off the shelf components for the cell transmission between sub-systems, boards or components. It also leads to the reduction of Connection Data Tables in coherence with the dimensioning required for a processing unit.

REMARKS

Entry and consideration of this Amendment is respectfully requested.

Respectfully submitted,

Brian Hannon

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Date: June 18, 2001

APPENDIX

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION:

The specification is changed as follows:

Please insert the following section heading:

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Page 6, before the first paragraph:

Brief Description of the Drawings

Page 6, before the fifth paragraph beginning with "The telecommunication carrier":

Detailed Description of the Invention

IN THE ABSTRACT OF DISCLOSURE:

The abstract is changed as follows:

ABSTRACT

~~TELECOMMUNICATION CARRIER PROCESSOR SUBSYSTEM WITH IN-BAND CONTROL AND ADDRESSING VIA CELL HEADER FIELDS~~

A telecommunication carrier processor subsystem (CPS) adapted to receive cells (1, 2), preferably ATM cells, and to derive from the H-bit header field thereof a smaller set of R bits. The set of R bits is not only used to route the cell to a predetermined output of the subsystem but

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~~Fig. 1~~